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3/a
J. Steptoe
8-26-03



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re Application of:

WESTLEY ASHE

GROUP ART UNIT: 2862

Serial Number: 10/098,517

EXAMINER: Subhash Zaveri

Filed: March 18, 2002

For: LOW DISTORTION MAGNETIC
TRANSMITTER AND METHOD
OF OPERATING

RECEIVED
AUG 12 2003
TECHNOLOGY CENTER 2800

AMENDMENT

The Honorable Commissioner of
Patents and Trademarks
Washington, D.C. 20231

Sir:

In response to the outstanding Office Action dated June 6, 2003, for which a shortened statutory period for response of three (3) months was given, kindly amend the subject application as follows:

Kindly replace the title with the following new title:

--MAGNETIC POSITION AND ORIENTATION MEASUREMENT SYSTEM WITH
MAGNETIC FIELD PERMEABLE ATTENUATOR--.

08/11/2003 CNGUYEN 00000002 10098517

01 FC:2202

9.00 OP

In the Abstract, kindly replace the originally presented Abstract with the following replacement Abstract as follows:

W A transmitter assembly includes a sandwich made up of a three axis transmitter, driven by a transmitter driver, mounted on a permeable attenuator with a spacer interposed between the transmitter and the attenuator. The attenuator is mounted on top of a conductive plate. A compensation coil is provided and driven by a compensation coil driver that energizes the compensation coil to optimize compensation for magnetic field edge effects. A number of individual compensation coils may be arranged about the periphery of the conductive plate or permeable attenuator. The individual compensation coils in the modification may be activated in tandem or individually to compensate for non-uniform magnetic edge fields caused by the non-symmetrical configuration of, for example, three transmitter coils or, for example, a square permeable attenuator rather than a circular permeable attenuator.